

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

**LISTING OF CLAIMS:**

Amendments shown by strikethrough (for deleted matter) or underlining (for added matter).

1. (currently amended) A subsystem for detachable joining of at least first and second beams of rectangular cross-section comprising:

a. for said first beam to be joined, a first pair of fixing plates mountable on opposite sides of said first beam and fixable along said first beam by friction maintained by tightening bolts, each one of the fixing plates comprising an inner planar surface adapted to face said first beam, and an outer planar surface parallel to said inner planar surface which is adapted to face away from said first beam,

b. for said second beam to be joined, a second pair of fixing plates mountable on opposite sides of said second beam and fixable along said second beam by friction maintained by tightening bolts, each one of the fixing plates comprising an inner planar surface adapted to face said second beam, and an outer planar surface parallel to said inner surface, which is adapted to face away from said second beam,

one of the outer planar surfaces of said first pair of fixing plates being bearable against one of the outer planar surfaces of said second pair of fixing plates when said first and second beams are arranged to be joined in perpendicular or parallel direction, ~~whereby every surface of the beams is either parallel or orthogonal to every other surface~~, the relative positions of said first and second pairs of fixing plates being fixed by locking elements in recesses in said outer planar surfaces of said first and second fixing plates, said locking elements also anchoring the tightening bolts.

2. (previously presented) The subsystem according to claim 1, wherein the locking elements are made of inner threaded sleeves.

3. (previously presented) The subsystem according to claim 2, wherein each fixing plate comprises projections arranged at each corner of the fixing plate.
4. (cancelled)
5. (previously presented) The subsystem according to claim 3, wherein wedges, extending from the projections are arranged to fix the position of the beams in a transverse direction in the friction joint, whereby a shape determined locking of the beams is achieved.
6. (previously presented) The subsystem according to claim 2, wherein the sleeves have longitudinal slots.
7. (cancelled)
8. (new) A detachable beam joint system comprising a plurality of beams of rectangular cross section, each beam having at least one pair of fixing plates mounted on opposite sides of the respective beam and fixable along the respective beam by friction maintained by tightening bolts, each one of the fixing plates comprising an inner surface facing the respective beam, and an outer surface parallel to said inner surface and which faces away from the respective beam, the outer surfaces of each pair of fixing plates being bearable against one of the outer surfaces of another pair of fixing plates mounted on opposite sides of another beam when respective beams are arranged to be joined in perpendicular or parallel direction, whereby every surface of every beam is either parallel or orthogonal to every other surface, the relative positions of said pairs of fixing plates being fixed by locking elements in recesses in the outer surfaces of the respective fixing plates, said locking elements also anchoring the tightening bolts.
9. (new) System according to Claim 8, wherein the cross sectional dimensions of all beams are module m or a multiple thereof.

10. (new) System according to Claim 9, wherein a beam is comprised of a composite plurality of beams of cross sectional dimension  $m$  or a multiple thereof.
11. (new) System according to Claim 8, wherein each of said first beam and said second beam has an additional pair of fixing plates mountable on opposite sides of said beam and fixable along said beam by friction maintained by tightening bolts, each one of the fixing plates comprising an inner surface adapted to face said beam, and an outer surface parallel to said inner surface, which is adapted to face away from said beam.
12. (new) System according to Claim 9, comprising a third beam of rectangular cross section having a pair of fixing plates mounted on opposite sides of said third beam and fixable along said third beam by friction maintained by tightening bolts, each one of the fixing plates comprising an inner surface adapted to face said third beam, and an outer surface parallel to said inner surface, which is adapted to face away from said third beam, and be bearable against the flat outer surface of said first or second pair of fixing plates.
13. (new) System according to Claim 8, comprising additional beams of rectangular cross section.
14. (new) System according to Claim 11, wherein the cross sectional dimensions of all beams are module  $m$  or a multiple thereof.